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1871/72

Circular and Catalogue

OF

UNION COLLEGE,

SEVENTY-SIXTH YEAR,

1871-2.

ALBANY:
J. MUNSELL, 82 STATE STREET.
1872.



Union College.

Union College, May 8, 1872.

DEAR SIR:

A general attendance of the Alumni of the Institution at the coming Commencement will be most heartily welcomed. A compliance with this invitation cannot fail to contribute to the success of the movements now inaugurated for the advancement of Alma Mater, and will at the same time secure to each one the pleasure of meeting some of his college acquaintances.

In accordance with the recommendation of the Alumni Association, the classes of 1812, 1822, 1832, 1842, 1852 and 1862 will this year hold their decennial reunions. Members of these classes expecting to be present are requested to give early notice of such intention to the Chairman of the Faculty Committee. Those who may be unable to attend will please send, for information of classmates, notes of their life since leaving college.

The programme for commencement this year is as follows:

On Sunday, June 23d, the Anniversary Sermon.

On Monday, June 24th, at 7.30 P. M., there will be Prize Speaking by members of the Junior and Sophomore Classes.

On Tuesday, June 25th (Alumni Day), at 9 A. M., the Phi Beta Kappa Society will hold their Annual Meeting at No. 4 South College.

At 10 A. M., the Alumni Association will hold their Business Meeting at No. 16 North College. At this meeting the Alumni will elect one of their number as a member of the Board of Trustees, for the term of four years.

At 1.30 P. M., the Association will hold their Annual Reunion in the College Chapel.

At 3 P. M., the Class Day Exercises of the Graduating Class will be held in the College Grove.

On Wednesday, June 26th, at 10 A. M., the Inauguration of the President, to be followed by the Commencement Exercises.

The Hon. Wm. H. Seward has consented to deliver the response in behalf of the Alumni at the Inauguration.

The Procession will move from the College Chapel at 9.30 A. M.

All except the Class Day Exercises will be held in the Presbyterian Church.

JOHN FOSTER,

Chairman of Faculty Committee.



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Trustees.

HIS EXCELLENCY JOHN T. HOFFMAN, LL.D., GOVERNOR.	} <i>Ex-Officio.</i>
HON. ALLEN C. BEACH, LIEUT. GOVERNOR.	
HON. G. HILTON SCRIBNER, SECRETARY OF STATE.	
HON. NELSON K. HOPKINS, COMPTROLLER.	
HON. THOMAS RAINES, TREASURER.	
HON. FRANCIS C. BARLOW, ATT'Y GENERAL.	
JAMES BROWN, Esq.	
HON. IRA HARRIS, LL.D.	

HON. WILLIAM W. CAMPBELL, LL.D.	
HON. RICHARD M. BLATCHFORD, LL.D.	
REV. EBENEZER HALLEY, D.D.	
HON. DAVID H. LITTLE.	
REV. J. TRUMBULL BACKUS, D.D.	
HON. CLARKSON N. POTTER.	
HON. PLATT POTTER, LL.D.	
HON. CHARLES C. NOTT.	
WILLIAM TRACY, LL.D.	
HON. WILLIAM F. ALLEN, LL.D.	
CHARLES E. SMITH, Esq., Term of Office expires June 26, 1872.	
HARVEY J. KING, Esq., " " " " 1873.	
JOHN A. DEREMER, Esq., " " " " 1874.	
HON. HENRY R. PIERSON, " " " " 1875.	

Visitors of the Nott Trust Fund.

URANIA E. NOTT.
REV. JOHN NOTT, D.D.
HON. WILLIAM W. CAMPBELL, LL.D.
HON. RICHARD M. BLATCHFORD, LL.D.
REV. J. TRUMBULL BACKUS, D.D.

Faculty.

REV. ELIPHALET NOTT POTTER, D.D.,
*President, Professor of Moral Philosophy, and Lecturer upon the
Evidences of Christianity.*

TAYLER LEWIS, LL.D.,
NOTT Professor (No. 6) of the Ancient and Oriental Languages.

ISAAC W. JACKSON, LL.D.,
NOTT Professor (No. 3) of Mathematics.

JOHN FOSTER, A.M.,
NOTT Professor (No. 8) of Natural Philosophy.

JONATHAN PEARSON, A.M.,
Professor of Natural History.

BENJAMIN STANTON, A.M.,
NOTT Professor (No. 7) of the Latin Language and Literature.

WILLIAM WELLS, A.M.,
Professor of Modern Languages and Literature.

MAURICE PERKINS, A.M., M.D.,
*NOTT Professor (No. 3) of Analytical Chemistry ; and Curator of
the Museum.*

REV. RANSOM BETHUNE WELCH, D.D.,
*NOTT Professor (No. 5) of Logic, Rhetoric and English Literature ;
and Acting Professor of Mental Philosophy.*

HENRY WHITEHORNE, A.M.,
NOTT Professor (No. 1) of the Greek Language and Literature.

CADY STALEY, A.M., C.E.,
Professor of Civil Engineering.

HARRISON EDWIN WEBSTER, A.M.,
Assistant Professor of Natural History.

EGBERT CHARLES LAWRENCE, A.B.,
Tutor in Mathematics.

SAMUEL BURNETT HOWE, A.M.,
*NOTT (adjunct) Professor (No. 4); Principal of the Classical Department
of Schenectady Union School.*

ALBERT DART PEAKE, A.B.,
Assistant Teacher in the Classical Department of Schenectady Union School.

JONATHAN PEARSON, A.M.,
Treasurer and Librarian.

EDGAR MARSHALL JENKINS,
Assistant Treasurer and Registrar.

Calendar.

1871-72.

1871. September 4, 5.

Monday and Tuesday—SECOND EXAMINATION FOR ADMISSION.

September 6.

Wednesday—FIRST TERM BEGINS.

Recess from the Wednesday noon before Thanksgiving to the following Monday noon.

December 19.

Tuesday—FIRST TERM ENDS.

Vacation of two weeks.

1872. January 3.

Wednesday—SECOND TERM BEGINS.

January 4-11.

Daily—FINAL EXAMINATION FOR THE DEGREE OF C.E.

January 25.

Thursday—DAY OF PRAYER FOR COLLEGES.

March 26.

Tuesday—SECOND TERM ENDS.

Vacation of one week.

April 3.

Wednesday—THIRD TERM BEGINS.

April 16, 17.

Tuesday and Wednesday—EXAMINATION FOR PRIZE SCHOLARSHIPS.

June 15, 17, 18, 19.

Saturday, Monday, Tuesday and Wednesday—ANNIVERSARIES OF LITERARY SOCIETIES.

June 21, 22.

Friday and Saturday—FIRST EXAMINATION FOR ADMISSION.

Monday, June 24.

June 25.

Tuesday—ANNUAL MEETING OF TRUSTEES.

June 25.

Tuesday—PHI BETA KAPPA AND ALUMNI DAY.

June 26.

Wednesday—COMMENCEMENT.

Vacation of ten weeks.

September 4.

Wednesday—FALL TERM BEGINS.

Information.

I. COURSE OF STUDY.

There are two courses of study established in the Academical department of this institution : the Classical and Scientific.

There are also special courses of instruction in Civil Engineering, and in Analytical Chemistry.

The Classical course is the original course of the college, enlarged and improved, and the degrees conferred are those customary in American colleges.

In the Scientific course the modern languages are substituted for the ancient, and the amount of mathematical and English studies is increased.

This course has recently been remodelled and a year added to its length, making it a four years' course intended to be fully equal, in amount of study and in disciplinary value, to the Classical course. The degrees conferred are the same as in that course. The diploma is in French.

The college is open to persons who are not candidates for a degree, and who desire to study in particular departments. It is required that they have a good moral character ; that their previous acquisitions, so far as the studies to be pursued shall require, be such as are demanded for admission to the regular courses ; and that they be subject to all the laws of the college in regard to diligence, good conduct and discipline.

II. ADMISSION.

Candidates for admission must present testimonials of good moral character, and must be at least sixteen years of age. If not previously vaccinated, they will be required to become so before joining the college.

Examinations for admission take place in presence of three college officers.

The stated times for such examinations are the last two days (Friday and Saturday) of the week preceding Commencement, and the last two days (Monday and Tuesday) of each vacation. The full dates will be found in the Calendar on page 6. By observing and conforming to these appointed times, applicants will greatly promote their own convenience and interest, as well as those of the examiners.

Candidates for the Freshman class in the Classical course will be examined in English Grammar ; Arithmetic (Davies's " University," or an equivalent) ; Algebra (to equations of the second degree) ; Plane Geometry, five books ; Andrews and Stoddard's or Bullions and Morris's or Harkness's Latin Grammar ; Cæsar's Commentaries, four books ; Virgil's *Æneid*, six books ; Latin Prosody ; six Orations of Cicero ; Sallust's *Catiline* or *Jugurtha* ; Arnold's Latin Prose Composition, First Part, 12 chapters ; Crosby's or Hadley's Greek Grammar ; Xenophon's *Anabasis*, three books ; Homer's *Iliad*, one book ; and Ancient Geography. The great deficiency in classical attainments found in many applicants for admission, makes it necessary to direct special attention to the above requisitions, on which (or their fair equivalent) it is proposed more strictly to insist.

It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year, and that they should not be burdened by deficiencies in the preparatory course which must be made up before the student can be in full standing as a member of college, and which can be made up only by expending time and strength that are fully demanded by the regular studies of the course.

Candidates for the Freshman class in the Scientific course will be examined in English Grammar, Modern Geography, Arithmetic (Davies's " University," or an equivalent), Algebra to equations of the second degree, and Plane Geometry, five books.

Candidates for any other class will also be examined in all studies previously pursued by that class, as shown in the course of studies as given below.

Students from other colleges, in addition to passing a satisfactory examination, will be required to present a letter of honorable dismissal.

It is very important that candidates should be thoroughly prepared, especially in grammatical and elementary knowledge. If, in their preparation, they have more time than is required for this purpose, it is desirable, for obvious reasons, that they should not anticipate the college studies, but apply themselves to other subjects or authors.

If a candidate upon examination shows such proficiency as to enable him to proceed with the studies of the class for which he offers himself, he will be received on probation, and enjoy all the privileges of the class.

When a sufficient time has elapsed for the formation of a judgment, if his scholarship, conduct and deportment warrant it, he will be admitted to full standing.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, and the first and second terms of the Junior. In the Senior year, some Greek author is read as a voluntary exercise, when time and circumstances permit. The Freshman year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time devoted to Greek in the Senior year, the latter aim is made predominant.

The reading of the Freshman year is confined mainly to Xenophon, Homer, and Herodotus. The Sophomore year, and part of the Junior, are found, from good experience, to be most profitably occupied with the Greek Dramatic Poetry; while in the remainder of the course the Greek Philosophy is made the chief object of attention.

The course of reading is frequently varied from that which is presented in the Catalogue, although the same general amount is required, and the same general plan is pursued.

During the Senior year courses of lectures are delivered by Prof. Lewis, on Greek Philosophy, Greek Poetry and Greek Literature in general.

2. THE LATIN LANGUAGE AND LITERATURE.

The course of instruction in this department, extending through the Freshman and Sophomore years and the first and second terms of the Junior year, embraces the reading of select portions of the Latin classics, and such collateral exercises as are requisite to the successful study of the Latin language.

During the Freshman year, special attention is given to the translation of English into Latin, and to the most careful and exact application of the rules and principles of the grammar in its various parts.

In the Sophomore year is commenced a more critical examination of the distinguishing features of the Latin language, its idioms, and its relationships to other languages, as they appear in its structure and history, as well as in the forms, composition and more remote etymology of its words. Particular attention is also given to the peculiarities of style, as exhibited in different Latin authors, and to rhetorical excellence in translation; that the student, while he is studying another language, may acquire a ready and elegant use of his own.

In the Junior year, the course of instruction is varied by giving more time to the investigation of the literature of the language; and in this the student is aided by lectures.

The instruction in this department, through the entire course, aims not only to impart to the student a thorough and accurate knowledge of the Latin language and its literature, and thus to conduct him to a more liberal and philosophical understanding of language and literature in general, but also to render him efficient aid in the discipline and education of his mind in the art of thinking, and in the best modes of expressing thought.

3. MODERN LANGUAGES.

The Modern Languages supply the linguistic training of the Scientific course, and are regular daily studies during the Freshman, Sophomore and Junior years; one hour per day being given to each class, and the studies alternating according to the schedule.

Instruction is imparted by exercises in translation (written and oral), conversational practice, and familiar lectures on the standard authors read.

The French language is a regular study through six terms, beginning with the first term Freshman. The text book mainly used is Pujol's *Complete French Course*. At a later period the *French Dramatists*, Racine and Corneille, are read.

The German Language extends through six terms, commencing with the first term Sophomore. The text books are Peissner's *Grammar* and *Course of Literature*, Whitney's *Grammar*, Woodbury's *Reader* and the Poets *Schiller* and *Goethe*.

The Italian Language is studied during the second and third terms Sophomore. The text books are Fontana's *Grammar* and Foresti's *Reader*.

The Spanish Language is taught during the second and third terms Junior. The text books are Ahn's *Spanish Grammar* and Velasquez' *Reader*. The last two languages are, however, voluntary studies, and classes are formed only when the demand is sufficient to justify it.

In addition to the above text books, are recommended: Spiers and Surene's *French Pronouncing Dictionary*, Adler's *German and English Dictionary*, Graglia's *Italian Dictionary*, and Velasquez' *Spanish Dictionary*.

The hours for the recitations in the Modern Languages, are so arranged when possible, that they may also be taken by regular classical students.

4. ORIENTAL LANGUAGES.

A class in Hebrew is formed every year by Prof. Lewis.

Instruction in Syriac, Arabic and the cognate tongues is also given by him to any desiring it.

5. MATHEMATICS.

The studies of this department are arranged as follows :

FRESHMAN YEAR.

First Term... Algebra, to "Series."—(Bourdon).

Second Term... Algebra (completed). Geometry — Solid ; two books — (Legendre).

Third Term... Geometry — Solid ; two books. Plane Trigonometry — (Jackson).

SOPHOMORE YEAR.

First Term.... Spherical Trigonometry. Surveying — (Gillespie).

Second Term... Conic Sections.—(Jackson).

Third Term... Analytical Geometry.—(Davies). (Scientific).

JUNIOR YEAR.

First Term.... Descriptive Geometry.—(Church). (Scientific).

Second Term.. Differential and Integral Calculus.—(Davies). (Voluntary).

6. NATURAL PHILOSOPHY AND ASTRONOMY.

The instruction in this department commences with the third term of the Sophomore year. Students in the Academical department, both of the Classical and the Scientific course, and those in the Engineering department, recite in two divisions, one hour being given to each, four days in the week, and the subjects succeed each other, in the following order :

SOPHOMORE YEAR.

Third Term.... Statics and Dynamics.—(Jackson).

JUNIOR YEAR.

First Term.... Mechanical "work." Hydrostatics, Hydrodynamics, Pneumatics.—(Jackson).

Second Term.. Heat, the Steam Engine, Electricity, Meteorology.—(Foster).

Third Term... Acoustics, Magnetism, Galvanism, and Electro-Magnetism.—(Foster).

SENIOR YEAR.

First Term.... Optics, Wave theory of light and radiant heat.

Second Term.. Astronomy.—(Gummere).

To secure at once precision and fullness, the instruction is mainly given from recently prepared text books. Frequent lectures are, however, delivered either to furnish illustration and proofs of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical "work," in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. To test the accuracy of the knowledge gained, and to ensure its ready command, several written examinations are required in each term, usually near its close.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustrations, and through the liberality of friends of the college, important additions of French, English and American instruments have been made within the present year.

7. CHEMISTRY.

In the Undergraduates' department, chemistry is taught by daily lectures and recitations during the third Junior term, and the first and second Senior terms

Undergraduates are also permitted to attend the daily two-hour course of experimental Chemistry at the Laboratory; in connection with which there is an extra charge for the material, etc., used.

The *Norr Laboratory* is open for special students, in all branches of Chemistry; particularly students of Agriculture, Medical students, Pharmacutists, Manufacturing Chemists, Mineralogists, Metallurgists, students of Medical Jurisprudence, etc.

Students who desire to devote but a portion of their time to Chemistry, can pursue at the same time other studies in the collegiate courses, either collateral, as Geology, Mineralogy, etc., or any

others. No previous knowledge of the science is required, though highly desirable.

The course will include instruction in Theoretical and Experimental Chemistry, and systematic Qualitative and Quantitative Analysis, in all their branches: and in the applications of the science to the arts and manufactures.

The more thorough the previous acquaintance of the student with Mathematics, Mechanics, Physics, and General Chemistry, the better.

Text-Books and Books of Reference.

Cooke's Chemistry.	Knapp's Chemical Technology.
Crafts's Qualitative Chemical Analysis.	Dana's Mineralogy.
Fresenius's Analysis.	Gmelin's Hand-Book of Chemistry.
Cooke's Chemical Physics.	Muspratt's Chemistry applied to Arts and Manufactures.
Miller's Chemical Physics.	Lehmann's Physiological Chemistry.
Miller's Elements of Chemistry.	Regnault's Elements de Chimie.
Dalton's Physiology.	
Percy's Metallurgy.	

Fees for full course, \$35 per term; for half-day course, \$25 per term.

Students are not required to purchase the apparatus which they use, but are charged for what they consume and injure.

They also pay for the chemicals which they consume. The above extras amount to from \$2 to \$20 a term.

For fuller information, address Prof. MAURICE PERKINS, M.D.

8. NATURAL HISTORY.

ZOOLOGY is taught in the Scientific course the first Sophomore term, by recitations and lectures. The work is illustrated by constant exhibition of specimens and dissections in the class room.

PHYSIOLOGY is taught in the third Sophomore term to the whole class by recitations and by lectures on Comparative Anatomy and Physiology. The subjects are illustrated by preparations and dissections.

GEOLOGY is taught during the second term of the Senior year by a daily course of recitations and lectures.

MINERALOGY is taught during the third term by a course of practical lessons, illustrated by a complete set of models of crystals and a series of six hundred specimens for determination by crystallographic and blowpipe examination.

The facilities for instruction in these departments have been largely increased by the addition to the College Cabinet of the WHEATLEY *Collection of Minerals and Shells*, purchased by E. C. DELAVAN, Esq., for ten thousand dollars, and by him presented to the college. About four thousand specimens of minerals have been systematically arranged and labelled for the purpose of instruction, and form a collection which stands among the first in the country in value and interest. In addition, a suite of the ores of the useful metals, comprising about a thousand specimens, have been arranged to illustrate their mode of occurrence and geographical distribution. The college has also a series of specimens, representing the rocks of the state of New York, and many of the most important fossils. The cabinet of recent Shells, which forms a part of the Wheatley collection, comprises about six thousand species, among which the land and fresh-water genera are peculiarly well represented.

Large additions have been more recently made to the Zoological and Geological Museums, mainly by direct collection, in which the instructors have been materially aided by many of the students. The facilities for special study in all these branches of Natural History are good. Students interested in practical study may without extra charge work with the instructor in collecting, preparing and identifying specimens. Contributions of fossils and zoölogical specimens are solicited from the friends of the College.

BOTANY is taught during the Summer term, both from text-book (Gray's) and practically in the field.

9. LOGIC, RHETORIC, AND ENGLISH LITERATURE.

The instruction in Logic and Rhetoric, includes the use of text-books, lectures, and practical exercises in declamation and the various forms of composition. In the study of English Literature, it is the aim to secure an acquaintance with the historical development of

the language, and the course of English thought as expressed at different periods, in the works of representative men.

The Freshmen have frequent exercises in declamation and the elementary forms of composition, and during the Third term they study a text book on Rhetoric. In the Sophomore year the study of Rhetoric is continued; and the subject is carried still further in the Junior year in connection with Logic. During the Junior and Senior years the rhetorical exercises consist of essays, discussions and declamation; and the Classics of English Literature and its history, are made the subjects of lectures and of study.

The text books and books of reference are as follows:

IN RHETORIC:—Day's *Art of Composition, Praxis, and Art of Discourse*; Hart's *Composition*; Blair's *Rhetoric*; Coppee's *Rhetoric*; Whateley's *Rhetoric and Logic*; Theremin on *Eloquence*.

IN ENGLISH LITERATURE:—Clark's *English Language*; Shaw's *Manual of English Literature*; Marsh's *Lectures on the English Language and Literature*; Craik's *English Literature*; Trench's various works; Milton's *Paradise Lost*; Chaucer's *Legende of Goode Women*.

10. POLITICAL ECONOMY.

In this department it is designed to give the student a sufficient knowledge of the elements of Political Economy to enable him to read and converse on the subject intelligently.

11. MENTAL AND MORAL SCIENCE.

The elements and history of mental and moral science are taught by the use of text books, accompanied by oral comments, explanations and illustrations. The effort is made to give the student an adequate knowledge of the history and present position of mental and moral philosophy; to accustom him to the modes of reasoning and the terms used in the discussion of such subjects; to acquaint him with the nature and value of the problems dealt with, and the methods proposed for solving them; and thus to prepare him to

understand the writings of the leading authors upon the subject, past and contemporary, and to follow out with intelligence and accuracy his own philosophical inquiries.

12. RELIGIOUS AND BIBLICAL INSTRUCTION.

The president has in charge the general duties of Chaplaincy and the Pastoral care of the College.

The Religious teaching while distinctly and earnestly Christian is not denominational, but as heretofore is consistent with the design and chartered title of "Union" College.

During the Senior year there will be given by the President a course of instruction together with additional lectures, upon Moral Philosophy, Practical Duty and the Claims and Evidences of Revealed Religion

Dr. Lewis conducts on Saturday evening a Bible Class for the benefit of the students, and delivers to the Senior Class a course of lectures on Biblical Literature.

Course of Studies.

FOR 1871-72.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

Livy.....	<i>Lincoln</i>
Xenophon's <i>Cyropædia</i>	<i>Owen</i>
Algebra—(continued)—to "Series".....	<i>Davies</i>

SECOND TERM.

Horace.....	<i>Lincoln</i>
Xenophon— <i>Memorabilia</i>	
Algebra—(completed).....	<i>Davies</i>
Geometry—Books VI and VII.....	<i>Legendre</i>

THIRD TERM.

Cicero <i>De Senectute</i> and <i>De Amicitia</i>	<i>Thatcher</i>
Homer—Iliad—Four Books.....	<i>Owen</i>
Geometry—Books VIII and IX.....	<i>Legendre</i>
Trigonometry—Plane.....	<i>Jackson</i>
Rhetoric with Composition and Declamation.....	<i>Day</i>
(<i>Exercises in Latin and Greek Composition, throughout Freshman Year</i>).....	<i>Arnold</i>

SOPHOMORE CLASS.

FIRST TERM.

Tacitus.....	
Homer—Odyssey—Six Books.....	<i>Owen</i>
Trigonometry—Spherical.....	<i>Jackson</i>
Surveying.....	<i>Gillespie</i>
Rhetoric—Art of Discourse.....	<i>Day</i>

SECOND TERM.

Juvenal and Terence.....	
Euripides—one or two Dramas.....	
Conic Sections.....	<i>Jackson</i>

THIRD TERM.

Horace—Satires and Epistles.....	
Sophocles—Two Dramas.....	
Statics and Dynamics.....	<i>Jackson</i>
Physiology.....	<i>Huxley</i>
Botany—Voluntary.....	<i>Gray</i>

Throughout Sophomore year, Exercises in translating Greek into Latin and also in English Composition and Declamation.

Course of Studies.

FOR 1871-72.

SCIENTIFIC COURSE.

FRESHMAN CLASS.

FIRST TERM.

English Language—Art of Composition.....	<i>Day</i>
French Grammar.....	<i>Pujol</i>
Algebra—(continued)—to “Series”.....	<i>Davies</i>

SECOND TERM.

English Language.....	<i>Day</i>
French Grammar and Reader.....	<i>Pujol</i>
Algebra (completed).....	<i>Davies</i>
Geometry—Books VI and VII.....	<i>Legendre</i>

THIRD TERM.

English Language.....	<i>Hart</i>
French Grammar and Reader.....	<i>Pujol</i>
Geometry—Books VIII and IX.....	<i>Legendre</i>
Trigonometry—Plane.....	<i>Jackson</i>
Rhetoric with Composition and Declamation.....	<i>Day</i>

SOPHOMORE CLASS.

FIRST TERM.

French Classic Prose.....	
German Grammar.....	<i>Peissner</i>
Trigonometry—Spherical.....	<i>Jackson</i>
Surveying.....	<i>Gillespie</i>
Rhetoric—Art of Discourse.....	<i>Day</i>
Zoology.....	<i>Nicholson</i>

SECOND TERM.

French Classic Poetry.....	
German Grammar.....	<i>Peissner</i>
Italian Grammar (Voluntary).....	<i>Fontana</i>
Geometrical Draughting.....	<i>Mahan</i>
Conic Sections.....	<i>Jackson</i>

THIRD TERM.

Contemporaneous French Literature.....	
German Grammar.....	<i>Whitney</i>
Italian Reader (Voluntary).....	<i>Foresti</i>
Analytical Geometry.....	<i>Davies</i>
Statics and Dynamics.....	<i>Jackson</i>
Draughting (Voluntary).....	<i>Mahan</i>
Physiology.....	<i>Huxley</i>
Botany (Voluntary).....	<i>Gray</i>

English Composition and Declamation, throughout the Sophomore year.

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Cicero— <i>Tusculan Disputations</i> .	
Æschylus—Two Dramas.	
Mechanical "Work," Hydrostatics, Hydrodynamics, Pneumatics . . .	<i>Jackson</i>
Rhetoric	<i>Whateley</i>
Logic	<i>Whateley</i>

SECOND TERM.

Lucretius or <i>Quintilian</i> .	
Plato— <i>Phædon</i> or <i>Gorgias</i> .	-
Rhetoric (continued)	<i>Whateley</i>
Heat, Steam Engine, Electricity, Meteorology	<i>Foster</i>

THIRD TERM.

Acoustics, Magnetism, Galvanism, Electro-Magnetism	<i>Foster</i>
Chemistry	<i>Cooke</i>
Political Economy	<i>Bowen</i>
History of Civilization	<i>Guizot</i>

Composition and Declamation throughout the Junior Year.

SENIOR CLASS.

FIRST TERM.

Optics, Wave Theory of Light and Radiant Heat	<i>Jackson</i>
Mental Philosophy	<i>Bowen's Hamilton</i>
Lectures on Greek Philosophy	<i>Lewis</i>
Lectures on English Prose Literature	<i>Welch</i>
Plato <i>contra</i> <i>Athcos</i> —(Voluntary)	<i>Lewis</i>
Applied Chemistry	<i>Lectures</i>

SECOND TERM.

Astronomy	<i>Gummere</i>
Geology	<i>Dana</i>
Moral Philosophy	<i>Student's Manual</i>
Lectures on Greek Philosophy and Poetry	<i>Lewis</i>
Aristophanes—Birds or Clouds (Voluntary)	<i>Felton</i>
Hebrew (Voluntary).	

THIRD TERM.

Moral Philosophy	<i>Butler's Analogy</i>
International Law.	
Lectures on English Poetry	<i>Welch</i>
Physical Geography.	
Lectures on Biblical Literature	<i>Lewis</i>
Lectures on Greek Poetry	<i>Lewis</i>
Hebrew—(Voluntary).	
Mineralogy—(Voluntary)	<i>Dana</i>

Rhetorical Exercises by Seniors, Juniors and Sophomores, before the whole College in Chapel, on Saturday, at 8 A. M.

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German Epic.....	<i>The Nibelungen</i>
Mechanical "Work," Hydrostatics, Hydrodynamics, Pneumatics...	<i>Jackson</i>
Descriptive Geometry.....	<i>Church</i>
Rhetoric.....	<i>Whateley</i>
Logic.....	<i>Whateley</i>

SECOND TERM.

German Tragedy.....	<i>Schiller</i>
Spanish Grammar (Voluntary).....	<i>Ahn</i>
Rhetoric (continued).....	<i>Whateley</i>
Heat, Steam Engine, Electricity, Meteorology.....	<i>Foster</i>
Mensuration.....	
Differential and Integral Calculus (Voluntary).....	<i>Davies</i>
Draughting (continued)—(Voluntary).....	<i>Lectures</i>

THIRD TERM.

German Tragedy.....	<i>Goethe</i>
Spanish Reader (Voluntary).....	<i>Velasquez</i>
Acoustics, Magnetism, Galvanism, Electro-Magnetism.....	<i>Foster</i>
Chemistry.....	<i>Cooke</i>
Political Economy.....	<i>Bowen</i>
Analytical Mechanics (Voluntary).....	<i>Boucharlat</i>
Draughting (continued)—(Voluntary).....	<i>Lectures</i>

Composition and Declamation throughout the Junior Year.

SENIOR CLASS.

FIRST TERM.

Optics, Wave Theory of Light and Radiant Heat.....	<i>Jackson</i>
Mental Philosophy.....	<i>Bowen's Hamilton</i>
Lectures on English Prose Literature.....	<i>Welch</i>
Surveying (continued), Parts IV—XII—(Voluntary).....	<i>Gillespie</i>
Applied Chemistry.....	<i>Lectures</i>
Laboratory Exercises.....	

SECOND TERM.

Astronomy.....	<i>Gummere</i>
Mineralogy and Geology.....	<i>Dana</i>
Moral Philosophy.....	<i>Student's Manual</i>
Engineering, Mensuration, etc.—(Voluntary).....	<i>Lectures</i>
Laboratory Exercises.....	

THIRD TERM.

Moral Philosophy.....	<i>Butler's Analogy</i>
International Law.....	
Lectures on English Poetry.....	<i>Welch</i>
Physical Geography.....	
Lectures on Biblical Literature.....	
Higher Surveying and Engineering Statics—(Voluntary).....	<i>Gillespie</i>

Rhetorical Exercises by Seniors, Juniors and Sophomores, before the whole College, in Chapel, on Saturdays, at 8 A. M.

TABULAR VIEW

OF THE

Studies of the Course,

NUMBER OF

EXERCISES ASSIGNED TO EACH DEPARTMENT, AND THE
APPOINTED HOURS.

Studies in Roman Type belonging to the Classical Course; those in *Italics* to the Scientific Course; those in small CAPITALS to both Courses; those in parenthesis () are voluntary.

FRESHMAN CLASS

	8 - 9	9 - 10	10 - 11	11 - 12	2 - 3	3 - 4
<i>1st Term.</i>						
MONDAY,	<i>French,</i>	Latin,	<i>English Language.</i>	Greek,	MATHEMATICS,	
TUESDAY,	<i>French,</i>	Latin,	<i>English Language.</i>	Greek,	MATHEMATICS,	
WEDNESDAY,	<i>French,</i>	Latin,	<i>English Language.</i>	Greek,	MATHEMATICS,	
THURSDAY,	<i>French,</i>	Latin,	<i>English Language.</i>	Greek,	MATHEMATICS,	
FRIDAY,	<i>French,</i>	Latin,	<i>English Language.</i>	Greek,	MATHEMATICS,	
<i>2d Term.</i>						
MONDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	<i>English Language.</i>
TUESDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	<i>English Language.</i>
WEDNESDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	<i>English Language.</i>
THURSDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	<i>English Language.</i>
FRIDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	<i>English Language.</i>
<i>3d Term.</i>						
MONDAY,	<i>French,</i> Latin,			MATHEMATICS,	Greek,	
TUESDAY,	<i>French,</i> Latin,		<i>English Language.</i>		Greek,	RHETORIC.
WEDNESDAY,	<i>French,</i> Latin,		<i>English Language.</i>	MATHEMATICS,	Greek,	RHETORIC.
THURSDAY,	<i>French,</i> Latin,		<i>English Language.</i>	MATHEMATICS,	Greek,	
FRIDAY,	<i>French,</i> Latin,			MATHEMATICS,		RHETORIC.

SOPHOMORE CLASS.

	8 - 9	9 - 10	10 - 11	11 - 12	2 - 3	3 - 4
<i>1st Term.</i>						
MONDAY,		<i>Modern Languages,</i>		MATHEMATICS,	Greek,	RHETORIC.
TUESDAY,	Latin,	<i>Modern Languages,</i>			Greek, Zoology,	RHETORIC.
WEDNESDAY,	Latin,	<i>Modern Languages,</i>		MATHEMATICS,		RHETORIC.
THURSDAY,	Latin,	<i>Modern Languages,</i>		MATHEMATICS,	Greek, Zoology,	PHYSIOLOGY,
FRIDAY,	Latin,	<i>Modern Languages,</i>		MATHEMATICS,	Greek, Zoology,	PHYSIOLOGY,
<i>2 Term.</i>						
MONDAY,	CONICS,	<i>Modern Languages,</i>		Greek,	<i>Geometric Drafting,</i>	Latin.
TUESDAY,	CONICS,	<i>Modern Languages,</i>	PHYSIOLOGY,	Greek,		Latin.
WEDNESDAY,	CONICS,	<i>Modern Languages,</i>		Greek,	<i>Geometric Drafting,</i>	Latin.
THURSDAY,	CONICS,	<i>Modern Languages,</i>	PHYSIOLOGY.	Greek,		Latin.
FRIDAY,	CONICS,	<i>Modern Languages,</i>		Greek,	<i>Geometric Drafting,</i>	Latin.
<i>3d Term.</i>						
MONDAY,				<i>Analyt. Geometry,</i> Greek,	ZOOLOGY.	STATICS.
TUESDAY,		<i>Modern Languages,</i> Latin,		<i>Analyt. Geometry,</i> Greek,		STATICS.
WEDNESDAY,		<i>Modern Languages,</i> Latin,			ZOOLOGY.	STATICS.
THURSDAY,		<i>Modern Languages,</i> Latin,		<i>Analyt. Geometry,</i> Greek,		STATICS.
FRIDAY,		<i>Modern Languages,</i> Latin,		<i>Analyt. Geometry,</i> Greek,	ZOOLOGY.	

(Botany), four days each week during the third Term, from 4 to 5.

JUNIOR CLASS.

	8-9	9-10	10-11	11-12	2-3	3-4
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1st Term.

MONDAY,			<i>Descriptive Geometry,</i> Greek.	PHYSICS,	Latin,	<i>Modern Languages.</i>
TUESDAY,		Logic,		PHYSICS,	Latin,	<i>Modern Languages.</i>
WEDNESDAY,		Logic,	<i>Descriptive Geometry,</i> Greek.	PHYSICS,		<i>Modern Languages.</i>
THURSDAY,		RHETORIC,	Greek,	PHYSICS,	Latin,	<i>Modern Languages.</i>
FRIDAY,		RHETORIC,	<i>Descriptive Geometry,</i> Greek.		Latin,	<i>Modern Languages.</i>

2d Term

MONDAY,		(Calculus),	Greek.	PHYSICS.	Latin,	<i>Modern Languages.</i>
TUESDAY,		RHETORIC,	(Calculus),	PHYSICS,	<i>Mensuration,</i>	<i>Modern Languages.</i>
WEDNESDAY,		RHETORIC,	(Calculus),	PHYSICS,	Latin,	<i>Modern Languages.</i>
THURSDAY,		RHETORIC,	(Calculus),	PHYSICS,	Latin, <i>Mensuration,</i>	<i>Modern Languages.</i>
FRIDAY,		RHETORIC,	(Calculus),	Greek,	Latin,	<i>Modern Languages.</i>

3d Term.

MONDAY,		CHEMISTRY,	(Anal. Mechanics),	PHYSICS,	POLITICAL ECONOMY,	<i>Modern Languages.</i>
TUESDAY,		CHEMISTRY,	History of Civilization,	PHYSICS,		<i>Modern Languages.</i>
WEDNESDAY,		CHEMISTRY,	(Anal. Mechanics),	PHYSICS,	POLITICAL ECONOMY,	
THURSDAY,		CHEMISTRY,	History of Civilization,	PHYSICS,		<i>Modern Languages.</i>
FRIDAY,		CHEMISTRY,	(Anal. Mechanics),	History of Civilization,	POLITICAL ECONOMY,	<i>Modern Languages.</i>

(Hebrew), for Juniors and Seniors; amount and time subject to adjustment.

SENIOR CLASS.						
	8 - 9	9 - 10	10 - 11	11 - 12	2 - 3	3 - 4
<i>1st Term.</i>						
MONDAY,		<i>Laboratory Exercises,</i>	OPTICS,	CHEMISTRY,		Lectures on Greek.
TUESDAY,	MENTAL PHILOSOPHY.	<i>Laboratory Exercises,</i>	OPTICS,			Lectures on Greek.
WEDNESDAY,	MENTAL PHILOSOPHY.		OPTICS,	CHEMISTRY,		
THURSDAY,	MENTAL PHILOSOPHY.		OPTICS,	CHEMISTRY,		ENG. LITERATURE.
FRIDAY,	MENTAL PHILOSOPHY.	<i>Laboratory Exercises,</i>		CHEMISTRY,		ENG. LITERATURE.
<i>2d Term.</i>						
MONDAY,	MORAL PHILOSOPHY,		ASTRONOMY,		GEOLOGY,	
TUESDAY,	MORAL PHILOSOPHY,		ASTRONOMY,		GEOLOGY,	
WEDNESDAY,			ASTRONOMY,	<i>Laboratory Exercises,</i>	GEOLOGY,	Lectures on Greek.
THURSDAY,			ASTRONOMY,	<i>Laboratory Exercises,</i>	GEOLOGY,	Lectures on Greek.
FRIDAY,	MORAL PHILOSOPHY,			<i>Laboratory Exercises,</i>	GEOLOGY,	Lectures on Greek.
<i>3d Term.</i>						
MONDAY,	MORAL PHILOSOPHY,	ENG. LITERATURE,				BIB. LITERATURE.
TUESDAY,	MORAL PHILOSOPHY,				POLITICAL SCIENCE,	BIB. LITERATURE.
WEDNESDAY,		ENG. LITERATURE,		PHYS. GEOG. AND METEOROLOGY.	POLITICAL SCIENCE,	Lectures on Greek.
THURSDAY,		ENG. LITERATURE,		PHYS. GEOG. AND METEOROLOGY.	POLITICAL SCIENCE,	Lectures on Greek.
FRIDAY,				PHYS. GEOG. AND METEOROLOGY.	POLITICAL SCIENCE,	Lectures on Greek.

(Mineralogy), three days each week during the third Term, from 4 to 5.

MONDAY,•••••		<i>Laboratory Exercises,</i>	OPTICS,	CHEMISTRY,	Lectures on Greek.
TUESDAY,•••••	MENTAL PHILOSOPHY.	<i>Laboratory Exercises,</i>	OPTICS,		Lectures on Greek.
WEDNESDAY,•••••	MENTAL PHILOSOPHY.		OPTICS,	CHEMISTRY,	
THURSDAY,•••••	MENTAL PHILOSOPHY.		OPTICS,	CHEMISTRY,	ENG. LITERATURE.
FRIDAY,•••••	MENTAL PHILOSOPHY.	<i>Laboratory Exercises,</i>		CHEMISTRY,	ENG. LITERATURE.

MONDAY,	MORAL PHILOSOPHY,	ASTRONOMY,	GEOLOGY,
TUESDAY,	MORAL PHILOSOPHY,	ASTRONOMY,	GEOLOGY,
WEDNESDAY,		ASTRONOMY,	GEOLOGY,
THURSDAY,		ASTRONOMY,	GEOLOGY,
FRIDAY,	MORAL PHILOSOPHY,		GEOLOGY,

MONDAY,	MORAL PHILOSOPHY,	ENG. LITERATURE,				BIB. LITERATURE.
TUESDAY,	MORAL PHILOSOPHY,					BIB. LITERATURE.
WEDNESDAY,		ENG. LITERATURE,			PHYS. GEOG. AND METEOROLOGY.	LECTURES ON GREEK.
THURSDAY,		ENG. LITERATURE,			PHYS. GEOG. AND METEOROLOGY.	LECTURES ON GREEK.
FRIDAY,					PHYS. GEOG. AND METEOROLOGY.	LECTURES ON GREEK.

(Mineralogy), three days each week during the third Term from 4 to 5.

Civil Engineering Department.

FACULTY.

REV. ELIPHALET NOTT POTTER, D.D., PRESIDENT.

ISAAC W. JACKSON, LL.D.,	MAURICE PERKINS, A.M., M.D.
JOHN FOSTER, A.M.,	CADY STALEY, A.M., C.E.
JONATHAN PEARSON, A.M.,	HARRISON E. WEBSTER, A.M.
WILLIAM WELLS, A.M.,	EGBERT C. LAWRENCE, A.B.

Civil Engineering Department.

INFORMATION.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the highest positions in the profession, after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental field work and numerical calculation, combined with the study of text-books, and lectures on the numerous subjects where books are wanting.

REQUIREMENTS FOR ADMISSION.

Candidates for admission must be thoroughly prepared in Arithmetic, Algebra, Geometry, Trigonometry, and the execution and demonstration of the first seventy problems of Mahan's "Industrial Drawing."

Students desiring to prepare in the Academical department for the Civil Engineering department, can enter the Scientific course of the Freshman class, and be prepared to commence the Engineering course the third term of Sophomore year.

Readiness in the common operations of Arithmetic (particularly mental calculation, cancellation and decimals), and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Previous practice in writing rapidly from dictation, and in making abstracts of lectures is very desirable.

Students may enter at any point of the course for which they are prepared.

Any studies of the course may be taken separately by those qualified to pursue them profitably.

EXPENSES.

The charges for instruction, use of instruments, room rent, servants' hire, etc., are \$30 per term. Graduation fee, including Diploma, \$10.

APPARATUS AND LIBRARY.

The department is fully supplied with field instruments of the best description. The apparatus has been greatly increased by the acquisition of numerous models and instruments from the best European sources.

Among them are these: a complete set (fifty) of the beautiful *Olivier* models of Descriptive Geometry, showing the generation, transformations and intersections of "Ruled-surfaces;" also a set (twenty) of the Darmstadt Descriptive Geometry models; the best stone cutting models (twenty), of *L'Ecole Polytechnique*; the Topographical models of M. Bardin; his models (seventy) of Geometrical intersections, etc.; his "Skew-arch" models; Mr. Doyne's dynamometer bridge-strain model; the levels of Egault, Troughton, Lenoir, Bernier, etc.

The extensive private collection of models and instruments, and the valuable Engineering and Scientific Library belonging to the late Professor Gillespie, have been purchased for the department; making the entire collection the most complete in the country.

The students also have access to the College and Society Libraries.

READING ROOM.

The "Gillespie Club," a society of Engineers, have a Reading Room well supplied with newspapers, magazines, and the principal engineering and scientific journals.

FIELD WORK.

The students have constant practice in the field whenever the weather will permit. The field work in the first term consists in

Land Surveying with the compass and chain, etc.; in the second term, Triangular and Trilinear surveying, and the use of the transit, solar compass and plane-table; in the fourth term, Common, Trigonometric and Barometric Levelling, and the use of the spirit-level, water-level, theodolite and barometer; in the fifth term, Road Engineering, comprising the reconnaissance and location of a line of road, levelling the line, running curves, staking out side slopes, and foundation pits, etc. The corps for road engineering is regularly formed, and each student takes in turn the position of flagman, chainman, rodman, leveller and transitman; in the sixth term, Astronomical Surveying and Location, and the use of the sextant.

DEGREE.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily (and complete similarly the remainder of the course), receive a diploma conferring the degree of "Civil Engineer" (C. E.), and it is intended that this diploma shall be a guaranty of more than average ability and industry. The others receive certificates proportioned to what they have done, both as to quantity and quality.

Graduates in this course who may choose to continue their studies another term, will receive directions and supervision from the Professor without fee, and can employ their time with great profit in the continuation and development of various useful subjects of investigation.

MISCELLANEOUS INFORMATION.

The Civil Engineering course is completed in two years, beginning with the Summer term, or College Third term, about April 1st, and ending about the last week in March, in time for its students to join parties then beginning the field work of the season.

The subjects of the course are so arranged as to harmonize them with the terms of College, and the seasons of the year suitable to

field work or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

The recent extension of this course demands so much time and study from those who take it, that students of the complete college "Scientific course" *cannot* pursue both at the same time. They can, however, with extra labor, combine the two by making them overlap, distributing the extra studies of the first four terms of the Engineering course over the last seven terms of the regular course, and then completing the C. E. course in two terms after graduating.

Students who take only the Special Engineering course have the privilege of attending any of the regular college courses on collateral subjects. They are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical science of the regular course, including more or less Chemical practice in the Analytical Laboratory. But, if their time will allow, their best plan is to enter as "Regular Scientific Students," and to pursue the complete course indicated in the preceding paragraph.

ARCHITECTURAL STUDENTS will find a large part of this course (particularly the Draughting, Mensuration, Stereotomy, Strength and Stability, etc.), adapted to their requirements.

Course of Studies.

PRELIMINARY STUDIES.

Arithmetic (Davies' University, or an equivalent).
 Algebra (Davies') complete ; or in 1st and 2d terms Freshman.
 Geometry (Legendre) complete ; or in 2d and 3d terms Freshman.
 Trigonometry (Plane and Spherical) ; or in 1st term Sophomore.
 Geometrical Draughting (Mahan 70 Problems) ; or in 2d term Sophomore.

REGULAR COURSE.

SUMMER TERM.

Statics and Dynamics.	<i>Jackson</i>
Analytical Geometry.....	<i>Davies</i>
Land Surveying ; by chain and compass, etc., with field practice, mapping and calculations. Parts I, II, III.....	<i>Gillespie</i>
Draughting from models, etc., by perpendicular projection ; or Plans, Elevations and Sections.	

AUTUMN TERM.

Mechanical work, Hydrostatics, Hydrodynamics, Pneumatics....	<i>Jackson</i>
Descriptive Geometry (Church) with graphical exercises and illustrations from the Olivier Models." Colors.	
Surveying ; with Transit, Theodolite, etc., with field practice, plats, and calculations (Parts IV-XII).....	<i>Gillespie</i>
Calculations ; rapid, accurate and approximate.....	<i>Lectures</i>
English Literature.	
French and German.	

WINTER TERM.

Heat, Steam Engine, Meteorology, Electricity.....	<i>Eoster</i>
Descriptive Geometry, } "One Plane,"	<i>Mahan</i>
} Spherical Projections,.....	<i>Church</i>
Mensuration of Engineering Structures — Notes and Calculations.	
Stereotomy (constructions in stone cutting, etc.) : illustrated by the models of the Paris Polytechnic School, and Prof. Bardin's models of the Skew Arch.....	<i>Mahan and Lectures</i>
Calculus — differential and integral.....	<i>Davies</i>
Draughting ; Shades and Shadows.	
French and German.	

SECOND YEAR STUDENTS.

SUMMER TERM.

Acoustics, Magnetism, Galvanism, Electro-Magnetism	<i>Foster</i>
Analytical Mechanics	<i>Boucharlat</i>
Chemistry	<i>Cook</i>
Levelling (common Trigonometric and Barometric); Topography; the Sextant and other Reflecting Instruments; Underground and Water Surveying.....	<i>Gillespie</i>
The Strength of Materials; data and formulas for calculating their resistance to extension, compression, torsion, bending and break- ing.....	<i>Gillespie</i>
Draughting; Oblique Projections; including Mechanical, Mili- tary and Isometrical Perspective.	
English Language.	
French and German.	

AUTUMN TERM.

Optics, Wave theory of Light and radiant Heat.....	<i>Jackson</i>
The Stability of Structures; data and formulas for calculating the resistance of frames, roofs, bridges, arches, etc., to giving way by overturning, dislocation, sliding, etc.,.....	<i>Gillespie</i>
Road Engineering; comprising the location, levelling, staking out, mapping and calculation of a line of rail road..	<i>Gillespie, Henck and Lectures</i>
Practical Chemistry; Laboratory practice.	
Higher Surveying—Geodesy; Practical Astronomy; Spherical and Astronomical Mapping and Navigation.....	<i>Lectures</i>
Draughting; Natural Perspective.	
French and German.	

WINTER TERM.

Astronomy.....	<i>Gummere</i>
Geology	<i>Dana</i>
General Construction; Materials, Foundations, Masonry, etc.,...	<i>Mahan</i>
Bridge Engineering; Plans and Calculations of the forms and Dimensions of Bridges of Wood, Iron and Stone....	<i>Haupt and Lectures</i>
Water Engineering; Hydraulic formulas; the supply of water for irrigation and for towns; the removal of water by drainage and sewerage; Canals; Improvements of River navigation, of Harbors, Sea Coasts, etc.,	<i>Mahan, Burnell and Lectures</i>
Agricultural and Sanitary Engineering.	
French and German.	

Final Examination.

ENGINEERING STUDIES.

JUNIORS.

SUMMER TERM.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
10 to 11	Surveying.	Surveying.	Surveying.	Surveying.	Surveying.
11 to 12	Anal. Geom.	Anal. Geom.		Anal. Geom.	Anal. Geom.
3 to 4	Mechanics.	Mechanics.	Mechanics.	Mechanics.	

FALL TERM.

10 to 11	Des. Geom.		Des. Geom.		Des. Geom.
11 to 12	Physics.	Physics.	Physics.	Physics.	
2 to 3	Surveying.	Surveying.	Surveying.	Surveying.	Surveying.

WINTER TERM.

9 to 10	Calculus.	Calculus.	Calculus.	Calculus.	Calculus.
10 to 11	Des. Geom.		Des. Geom.		Des. Geom.
11 to 12	Physics.	Physics.	Physics.	Physics.	
2 to 3		Mensuration.		Mensuration.	

SENIORS.

SUMMER TERM.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9 to 10	Chemistry.	Chemistry.	Chemistry.	Chemistry.	Chemistry.
10 to 11	Anal. Mech.	Leveling.	Anal. Mech.	Leveling.	Anal. Mech.
11 to 12	Physics.	Physics.	Physics.	Physics.	
2 to 3	Eng. Statics.		Eng. Statics.		Eng. Statics.

FALL TERM.

8 to 10	Roads.	Roads.	Roads.	Roads.	Roads.
10 to 11	Optics.	Optics.	Optics.	Optics.	
11 to 12	Chemistry.		Chemistry.		Chemistry.
2 to 3		Eng. Statics.	Eng. Statics.	Eng. Statics.	

WINTER TERM.

9 to 10	Construction.	Construction.	Construction.	Construction.	Construction.
10 to 11	Astronomy.	Astronomy.	Astronomy.	Astronomy.	
2 to 3	Geology.	Geology.	Geology.	Geology.	Geology.

The hours for modern languages are given in the regular course. The hours for drawing are so arranged as not to conflict with recitations and lectures.

IV. MISCELLANEOUS INFORMATION.

1. **TERMS AND VACATIONS.**—There are three terms of the average length of thirteen weeks, and three vacations. Commencement takes place on the Wednesday immediately preceding the 4th of July, and the first term begins ten weeks after that time. This term is followed by a Vacation of two weeks embracing the Christmas holidays. The Second Term is followed by the Spring Vacation of one week. The Third Term ends with Commencement.

2. **PAYMENTS AND EXPENSES.**—The College bills must be paid at the beginning of each term. In case such payment is not made within the first week of the term, the treasurer is instructed to inform the parent or guardian of the delinquent.

Students unless from another College, pay for entrance into the Freshman class, \$5 ; into the Sophomore class, \$7 ; into the Junior class, \$9 ; into the Senior class, \$12.

No retrospective expense is incurred by entering in advance.

The College bills for Tuition, Room rent, etc., are \$25 per term ; for the Engineering course \$30 ; for Chemical instruction, as on page 14. When the College rooms are occupied, \$3 per term is deducted from the bills of the students who are thereby obliged to room elsewhere ; otherwise no deduction is made. The expenses of instruction, board, lights, washing, text-books, etc., during the three terms of thirty-nine weeks, may vary in amount from \$250 to \$350. Furniture can be bought and resold on leaving, or hired of the college servants.

3. **RESIDENCE AND DISCIPLINE.**—Students are expected to reside in the main buildings, under the immediate supervision of the President and Professors. No student can reside elsewhere without special permission.

The discipline of the Institution is moral and parental. Disgraceful punishments are not inflicted ; but no young man who

indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

Parents or guardians are requested either to appoint a special guardian for their sons or wards, or to deposit all funds intended for their use with the Treasurer or Registrar of the College, who will act without charge as fiscal guardian.

An account of the delinquencies of each student, and of his daily attendance, conduct and scholarship, is kept by the Registrar. The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Each student is required to return punctually at the beginning of the term and report himself at the Registrar's office; and until he thus reports himself he is considered as absent, and so marked on his bill. A similar report is required after any temporary absence from sickness or by permission.

Parents are requested to inform the Registrar, by their sons, what church they wish them to attend.

V. SCHOLARSHIPS.

1. ORDINARY SCHOLARSHIPS.

To a large class of students, Union College presents extraordinary advantages in its numerous scholarships. In the scholarships of the first grade, the incumbents on the condition of good conduct and satisfactory application to study, receive at the end of each term a credit on the books of the Registrar, to the full amount of the term bill.

In the scholarships of the second grade, the incumbents, on the same condition, receive a credit to the amount of half the term bill.

These scholarships are accessible, under certain restrictions, to all who present the requisite certificates of character, and sustain the examinations required for admission to the regular classes of the College.

2. PRIZE SCHOLARSHIPS.

Among the several classes of scholarships founded by the late Dr. Eliphalet Nott,¹ is a class of Prize Scholarships.

An examination of candidates for these scholarships is held early in the first term of the Freshman Year, and also at a later period in the same year, and the appointments are made according to certain rules prescribed by the founder.

The pecuniary emolument of a Prize Scholarship is thirty-five dollars a term, or four hundred and twenty dollars for the whole College course, a provision which enables the incumbent after paying his College bills to retain the sum of one hundred and twenty dollars.

The possession of a Prize Scholarship being a special distinction, the incumbent is expected and required to maintain throughout his whole course, high standing as a student in all respects.

Among the rules which the incumbent is required to observe is one which forbids the use during the period of incumbency of intoxicating liquor as a beverage and of tobacco in all its forms.

VI. MEDALS AND PRIZES.

1. THE BLATCHFORD ORATORICAL MEDALS.—HON. R. M. BLATCHFORD, LL.D., has founded an Oratorical Prize, consisting of two Gold Medals, of the value of the interest of \$1,000, to be given to the two members of the graduating class who shall deliver at Commencement the best Orations; "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." These medals of the values of forty and thirty dollars for the orations respectively first and second in merit, are awarded, at the close of the exercises, by a committee appointed for the purpose.

¹ Few of these are yet actually endowed, but their ultimate endowment is secured by the prospective sale of valuable lands.

2. THE WARNER PRIZE.—HON. H. G. WARNER, LL.D., of Rochester, has founded an Annual Prize, consisting of Silver Plate of the value of \$50, to be awarded to "The Graduate of Union College Classical course, who shall reach the highest standing in the performance of collegiate duties, and also sustain the best character for moral rectitude and deportment, without regard to religious practice or profession. The prize awarded by the officers of the College, in accordance with the conditions prescribed by the donor, is presented at Commencement.

3. THE INGHAM PRIZE.—HON. ALBERT C. INGHAM, LL.D., of Meridian, N. Y., for the purpose of promoting a familiarity with the best English classics, has founded an annual prize of seventy dollars (in the form of plate, or money, as preferred)¹ to be awarded to that member of the Senior Class (connected with the College for not less than two years), who shall present the best essay on one of two subjects previously assigned in English Literature or History. This Prize is awarded at Commencement by a committee appointed in accordance with certain conditions prescribed by the founder.

The essays offered for the Ingham Prize for the year 1871-2, will be upon one of the two following subjects:

William M. Thackeray as a writer of fiction.

William Wordsworth's poetry and theory of poetry.

4. PRIZE ESSAYS.—Prizes are awarded to the two members of the Senior class who present the best Essays on English literature, on subjects assigned the previous term.

The subjects assigned for these Essays for the year 1871-2, are:

The Essays of Charles Lamb.

The genius and character of Alexander Hamilton.

5. PRIZE SPEAKING.—Prizes are awarded to the two members of the Junior and Sophomore classes respectively, who deliver the best Orations on the occasion of Prize speaking during Commencement week. Six Juniors and four Sophomores are selected for this exercise; regard being had both to composition and to delivery.

¹ Provision has been made for the case in which the incumbent may prefer to receive this sum, either in whole, or in part, in medals instead of money.

The prizes are in the form of valuable books, and are announced at Commencement.

SPECIAL PRIZES.—Two special Prizes are to be awarded at the close of the present College year.

In the department of Natural Philosophy a first prize of \$20 and a second prize of \$10 will be awarded to those members of the Junior Class who take the first and second rank in the recitations and examinations of the department for the year.

In the department of Ancient Languages a first prize of \$30, and a second prize of \$10 will be given to those members of the Sophomore Class whose rank in the department shall be first and second respectively, as determined by the ordinary recitations of the year, a special examination on the Classical studies of the year, and scholarly deportment in the exercises of the department.

FINAL MERIT ROLL.—Students are reminded that the relative position occupied by the names of members of the graduating class on the final merit roll, depends entirely on the standing taken by each respectively at his examination when entering the class, and on his subsequent relative diligence, punctuality, gentlemanlike demeanor and moral conduct. By a recent enactment of the Trustees the final grades or the relative standing of the members of the successive graduating classes will be hereafter indicated in some way on the Commencement programmes.

Catalogue of Students.

ABBREVIATIONS.

C — Classical Students.

S — Scientific Students.

* Dead.

The second list includes the names of Students in partial courses, reciting mainly in the classes with which their names are registered, and of Students who are out of regular standing in one or more departments.

The third list consists of such as have been members of the several classes at some time preceding the beginning of the present College year.

SENIOR CLASS.

NAMES.	RESIDENCE.
C ANDREW WEBSTER ARCHIBALD,	<i>New Kingston.</i>
S CLARENCE LIVINGSTON CROFTS,	<i>Hudson.</i>
C CHARLES LIVINGSTON ELLWOOD,	<i>Schenectady.</i>
S JASPER CALVIN GATES,	<i>Millville, Pa.</i>
S WILLIAM JAMES HILLIS,	<i>West Milton.</i>
S BYRON HORTON,	<i>Liberty Falls.</i>
C WILLIAM J. KLINE,	<i>Fultonville.</i>
C WILLIAM BALLENTINE McMECHAN,	<i>Omaha, Neb.</i>
C CHARLES HOOD MILLS,	<i>Albany.</i>
C LANGRAVE SHULTS,	<i>Avoca.</i>
C GEORGE DALLAS SLOCUM,	<i>Schuylersville.</i>
C EDGAR FRANKLIN SWORTFIGUER,	<i>Schenectady.</i>
S JOHN MELVIN THOMAS,	<i>Albany.</i>
C HOWARD THORNTON,	<i>Newburgh.</i>
S JAMES EMERSON ALLEN,	<i>Schenectady.</i>
S GEORGE HILLARD BENJAMIN,	<i>Schenectady.</i>
THOMAS CHALMERS BUNYAN,	<i>Charlton.</i>
S CHARLES EDWARD CHEESEMAN, ...	<i>Fort Edward.</i>
S BARNETT LEE COREY,	<i>Amsterdam.</i>
S DANIEL SCOTT LAMONT,	<i>McGrawville.</i>
C CHARLES HENRI LEONARD,	<i>Chagrin Falls, O.</i>
S GEORGE CLINTON RIDER,	<i>Rider's Mills.</i>
S ELBERT SLINGERLAND ROOS,	<i>New Hurley.</i>
S WILLIAM HENRY SELLECK,	<i>Michigan City, Ind.</i>
HIRAM AUGUSTUS TORREY,	<i>New Orleans, La.</i>
S WILLIAM SEWARD WEBB,	<i>New York.</i>
C DANIEL BURTON WOOD,	<i>Allentown, Pa.</i>
C JOSEPH HARRISON WRIGHT, ...	<i>Meredith.</i>

JUNIOR CLASS.

NAMES.	RESIDENCE.
C WILLIAM TELLER CLUTE,.....	<i>Schenectady.</i>
C JOHN DONNAN COUNTERMINE,.....	<i>Mariaville.</i>
C NEWTON DEXTER,.....	<i>Albany.</i>
S WILLIAM EARL FAULKNER,	<i>Milton.</i>
C HENRY OSCAR HILL,	<i>Byfield, Mass.</i>
C JAMES HOWARD HOYT,	<i>Saratoga Springs.</i>
S JOHN WILLARD LESTER,	<i>Saratoga Springs.</i>
C EUGENE L. MAPES,.....	<i>Florida.</i>
C CHARLES LESTER POND,.....	<i>Saratoga Springs.</i>
C FRANK HUNTER POTTER,.....	<i>New York.</i>
S JAMES BROWN POTTER,.....	<i>New York.</i>
C HENRY ALANSON POWELL,	<i>Chatham.</i>
S JOHN MORRELL RIDER,.....	<i>Chatham.</i>
C WILLIAM PLATT RUDD,	<i>Albany.</i>
C ALEXIS CUTLER SMITH,.....	<i>Brooklyn.</i>
C BENJAMIN IRVING STANTON,.....	<i>Schenectady.</i>
S CHARLES TEN BROECK,	<i>Rhinebeck.</i>
C JAMES LANSING VEEDER,.....	<i>Fonda.</i>

CHARLES F. KELLOGG,.....	<i>Gorham, Me.</i>
JOHN BOYD PACKER,.....	<i>Schenectady.</i>

S EDWARD MCCAMUS BARRINGER,.....	<i>Schenectady.</i>
S AUSTIN WARD DUNHAM,.....	<i>Albany.</i>
WILLIAM DANFORTH HULETT,.....	<i>Wallingford, Vt.</i>
MURRAY DENNISTON MCCONNELL,	<i>Jacksonville, Ill.</i>
C WILLIAM ROST,	<i>Schenectady.</i>
S ARTHUR HEARSEY SNELL,.....	<i>Schenectady.</i>
C GEORGE VAN BUREN,.....	<i>Canandaigua.</i>

SOPHOMORE CLASS.

NAMES.	RESIDENCE.
C JAMES BAYARD BACKUS,	<i>Schenectady.</i>
S JAMES BARKER,	<i>Schenectady.</i>
C GEORGE FREDERICK BEAKLEY,	<i>Sharon Centre.</i>
C TRACY CHATFIELD BECKER,	<i>Cohoes.</i>
C WALTER ROMAINE BENJAMIN,	<i>Schenectady.</i>
S CORTLAND P. L. BUTLER, JR., ...	<i>Columbus, O.</i>
S EDWARD L. CORBIN,	<i>South Owego.</i>
C JAMES TAYLOR HOYT,	<i>West Greenfield.</i>
S FRANKLIN ABBOTT JAGGER,	<i>Albany.</i>
C HENRY WEBSTER LAWRENCE, ...	<i>Greenfield.</i>
C GEORGE MAXON,	<i>Schenectady.</i>
C PATRICK HENRY McDERMOTT,	<i>Schenectady.</i>
S ROBERT A. McDUFFIE,	<i>Glen.</i>
C CHARLES F. C. MOOR,	<i>Waterville, Me.</i>
S SALVAH STRYKER NEWCOMB,	<i>Kingston.</i>
C JOSEPH EDGAR ODELL,	<i>Schenectady.</i>
S LAWRENCE A. SERVISS,	<i>Minaville.</i>
S JOHN FREDERICK SLOSSER,	<i>Schenectady.</i>
C MILTON WHITING STICKNEY,	<i>Albany.</i>
S FITCH JAMES SWINBURNE,	<i>Rouse's Point.</i>
S ANSON PARSONS THOMAS,	<i>Albany.</i>
S GEORGE MARCIUS VIAL,	<i>Dorset, Vt.</i>
S HENRY ADAMS WALDRON,	<i>Cohoes.</i>
S GEORGE BYRON WHITE,	<i>Rotterdam.</i>

MARCUS MOSES LEVY, *Schenectady.*

C EDWARD M. BOTSFORD, *Port Jervis.*
 S URI BURT, *Albany.*
 S CHARLES CALVIN PRATT, *Port Henry.*

FRESHMAN CLASS.

NAMES.	RESIDENCE.
SSAMUEL WILMER ABBEY,.....	<i>Brooklyn.</i>
SSAMUEL ALBERT CLARKE,.....	<i>Cohoes.</i>
SSILAS WATSON FORD,	<i>Schenectady.</i>
SNICHOLAS VAN VRANKEN FRANCHOT,	<i>Schenectady.</i>
S WILLIAM LEONARD JACKSON,.....	<i>East Glenville.</i>
C STANLEY DAY JEWELL,	<i>Catskill.</i>
SFRANK POTTER JOHNSON,	<i>Schenectady.</i>
S WILLIAM C. MCCAMUS,	<i>Schenectady.</i>
CHENRY RATHBONE MICKS,	<i>Elmira.</i>
SJOHN E. MYERS,	<i>Schenectady.</i>
SJAMES LIVINGSTON O'DONNELL,	<i>Lansingburgh.</i>
CLouis OPPENHEIM,	<i>Schenectady.</i>
SJOHN LAWRENCE SCHOOLCRAFT,.....	<i>Schenectady.</i>
CHEZEKIAH SMITH,	<i>Albany.</i>
CJAMES REAGLES TRUAX,	<i>Schenectady.</i>
CGEORGE OHLEN VANDEBOGERT,.....	<i>Schenectady.</i>
CJOHN VEEDER,	<i>Rotterdam.</i>
SEdward EDGAR WHITEHORNE,.....	<i>Schenectady.</i>
CEdward BICKNELL WOOSTER,	<i>Albany.</i>

JOHN MCCLELLAN,..... *Coila.*

STUDENTS OF CIVIL ENGINEERING.

SECOND YEAR STUDENTS.

NAMES.	RESIDENCE.
ASA PARSHALL BOVIER,.....	<i>Elmira.</i>
JASPER CALVIN GATES,.....	<i>Millville, Pa.</i>
GEORGE HENRY LYON,.....	<i>Coudersport, Pa.</i>
ISAIAH BENJAMIN PRICE,.....	<i>Baltimore, Md.</i>

JOHN C. BARRY,.....	<i>Owego.</i>
AUSTIN CRESWELL BOYNTON,.....	<i>Emporium, Pa.</i>
BENJAMIN MUMFORD PECK,.....	<i>Schenectady.</i>

FIRST YEAR STUDENTS.

ANDREW BUCHANAN,.....	<i>Vail's Mills.</i>
LEONARD FREDERICK CROFT,	<i>Wallingford, Vt.</i>
EDWARD PAYSON JENNINGS,.....	<i>Saratoga Springs.</i>
HESDEN PRIOR KING,.....	<i>Warrensburg.</i>
CHARLES ERNEST ROUNDS,.....	<i>New Haven, Ct.</i>

STUDENTS OF ANALYTICAL CHEMISTRY.

NAMES.	RESIDENCE.
ASA PARSHALL BOVIER,.....	<i>Elmira.</i>
CLARENCE LIVINGSTON CROFTS,	<i>Hudson.</i>
CHARLES LIVINGSTON ELLWOOD,	<i>Schenectady.</i>
JASPER CALVIN GATES,.....	<i>Millville, Pa.</i>
WILLIAM JAMES HILLIS,.....	<i>West Milton.</i>
BYRON HORTON,	<i>Liberty Falls.</i>
CHARLES EDMUND JONES,.....	<i>Albany.</i>
GEORGE HENRY LYON,.....	<i>Coudersport, Pa.</i>
WILLIAM BALLENTINE McMECHAN,	<i>Omaha, Neb.</i>
CHRISTIAN F. C. NICKLAS,.....	<i>Schenectady.</i>
ISAIAH BENJAMIN PRICE,	<i>Baltimore, Md.</i>
JOHN MELVIN THOMAS,	<i>Albany.</i>
HOWARD THORNTON,	<i>Newburgh.</i>

SUMMARY.

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DISTRIBUTION BY STATES.

NEW YORK, - - - - -	78
PENNSYLVANIA, - - - - -	2
MAINE, - - - - -	2
VERMONT, - - - - -	2
CONNECTICUT, - - - - -	1
MASSACHUSETTS, - - - - -	1
MARYLAND, - - - - -	1
OHIO, - - - - -	1
NEBRASKA, - - - - -	1
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Nott Prize Scholarships.

Class of 1872.

ANDREW W. ARCHIBALD.

Prepared at the ANDES COLLEGIATE INSTITUTE, Rev. JAMES M.
SMEALLIE, Principal.

Class of 1874.

JOSEPH EDGAR ODELL.

Prepared at the SCHENECTADY UNION SCHOOL, SAMUEL
B. HOWE, A.M., Principal.

Class of 1875.

JAMES REAGLES TRUAX.

Prepared at the SCHENECTADY UNION SCHOOL, SAMUEL B.
HOWE, A.M., Principal.

Prizes awarded at Commencement.

June 28, 1871.

INGHAM PRIZE.

JOHN S. V. R. HOFF, *Albany*.

PRIZE ESSAYS.

1st Prize—GEORGE R. DONNAN, *Galway*.

2d Prize—PHILO W. SPRAGUE, *Schenectady*.

BLATCHFORD MEDALS.

1st Medal—JOHN S. V. R. HOFF, *Albany*.

2d Medal—PERCIVAL J. PARRIS, *Paris, Me.*

WARNER PRIZE.

GEORGE R. DONNAN, *Galway*.

Prize Speaking.

June 26, 1871.

JUNIORS.

1st Prize — CHARLES HENRI LEONARD, *Chagrin Falls, O.*

2d Prize — WILLIAM J. HILLIS, *West Milton.*

SOPHOMORES.

1st Prize — EUGENE L. MAPES, *Florida.*

2d Prize — HENRY A. POWELL, *Brooklyn.*

JUNIOR PRIZES IN NATURAL PHILOSOPHY.

1st Prize — BYRON HORTON, *Liberty Falls.*

2d Prize — WILLIAM J. KLINE, *Fultonville.*

SOPHOMORE PRIZES IN ANCIENT LANGUAGES.

1st Prize — HENRY OSCAR HILL, *Byfield, Mass.*

2d Prize — EUGENE L. MAPES, *Florida.*

Honors of the Graduating Class.

1871.

LATIN ORATION.

GEORGE R. DONNAN, *Galway.*

Alumni Association.

HON. JOHN T. HOFFMAN, LL.D.,	-	-	-	-	<i>President.</i>
RT. REV. HORATIO POTTER, D.D., LL.D., D.C.L. Oxon,	}	-	-	-	<i>Vice Presidents.</i>
PROF. FRANK H. HAMILTON, M.D., LL.D.,					
HON. AMASA J. PARKER, LL.D.,					
HON. HENRY R. PIERSON,					
ALEX. J. THOMSON, A.M.,	-	-	-	-	<i>Cor. Secretary.</i>
HARRISON E. WEBSTER, A.M.,	-	-	-	-	<i>Rec. Secretary.</i>
PROF. JONATHAN PEARSON, A.M.,	-	-	-	-	<i>Treasurer.</i>
EGBERT C. LAWRENCE, A.B.,	-	-	-	-	<i>Librarian.</i>

Local Associations of Alumni.

New York.					
Rt. Rev. HORATIO POTTER, D.D., LL.D., D.C.L.,	-	-	-	-	<i>President.</i>
Albany.					
HON. AMASA J. PARKER,	-	-	-	-	<i>President.</i>
Troy.					
HARVEY J. KING,	-	-	-	-	<i>President.</i>
Elmira.					
HON. HIRAM GRAY, LL.D.,	-	-	-	-	<i>President.</i>
Rochester.					
HON. HORATIO G. WARNER, LL.D.,	-	-	-	-	<i>President.</i>
Buffalo.					
HON. JOSEPH G. MASTEN,	-	-	-	-	<i>President.</i>
Philadelphia.					
Gen. E. W. STURTEVANT,	-	-	-	-	<i>President.</i>
Chicago.					
HON. HENRY R. PIERSON,	-	-	-	-	<i>President.</i>
St. Louis.					
HON. THOMAS ALLEN,	-	-	-	-	<i>President.</i>



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